

Paul J Mccullagh

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116
papers

1,290
citations

21
h-index

31
g-index

127
ext. papers

1,534
ext. citations

2.3
avg, IF

4.37
L-index

| # | Paper | IF | Citations |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 116 | Ambient Intelligence: Concepts and applications. <i>Computer Science and Information Systems</i> , 2007 , 4, 1-27 | 0.8 | 113 |
| 115 | Feature selection and classification model construction on type 2 diabetic patients' data. <i>Artificial Intelligence in Medicine</i> , 2007 , 41, 251-62 | 7.4 | 88 |
| 114 | Activity Monitoring Using a Smart Phone's Accelerometer with Hierarchical Classification 2010 , | | 48 |
| 113 | Management of Uncertainty and Spatio-Temporal Aspects for Monitoring and Diagnosis in a Smart Home. <i>International Journal of Computational Intelligence Systems</i> , 2008 , 1, 361-378 | 3.4 | 44 |
| 112 | A review of the role of assistive technology for people with dementia in the hours of darkness. <i>Technology and Health Care</i> , 2009 , 17, 281-304 | 1.1 | 43 |
| 111 | Smart self management: assistive technology to support people with chronic disease. <i>Journal of Telemedicine and Telecare</i> , 2010 , 16, 224-7 | 6.8 | 40 |
| 110 | Feature learning for Human Activity Recognition using Convolutional Neural Networks. <i>CCF Transactions on Pervasive Computing and Interaction</i> , 2020 , 2, 18-32 | 1.8 | 37 |
| 109 | A review of rapid serial visual presentation-based brain-computer interfaces. <i>Journal of Neural Engineering</i> , 2018 , 15, 021001 | 5 | 37 |
| 108 | 2011 , 49, 110-117 | | 35 |
| 107 | Flexible context aware interface for ambient assisted living. <i>Human-centric Computing and Information Sciences</i> , 2014 , 4, | 5.4 | 34 |
| 106 | Optimal model selection for posture recognition in home-based healthcare. <i>International Journal of Machine Learning and Cybernetics</i> , 2011 , 2, 1-14 | 3.8 | 33 |
| 105 | Ethical Challenges Associated with the Development and Deployment of Brain Computer Interface Technology. <i>Neuroethics</i> , 2014 , 7, 109-122 | 1.2 | 32 |
| 104 | Synthesising the 12-lead electrocardiogram: Trends and challenges. <i>European Journal of Internal Medicine</i> , 2007 , 18, 566-70 | 3.9 | 29 |
| 103 | Participatory research to design a novel telehealth system to support the night-time needs of people with dementia: NOCTURNAL. <i>International Journal of Environmental Research and Public Health</i> , 2013 , 10, 6764-82 | 4.6 | 28 |
| 102 | Data and Information Quality Issues in Ambient Assisted Living Systems. <i>Journal of Data and Information Quality</i> , 2012 , 4, 1-15 | 2.5 | 28 |
| 101 | Automatic Annotation for Human Activity Recognition in Free Living Using a Smartphone. <i>Sensors</i> , 2018 , 18, | 3.8 | 27 |
| 100 | Neuroaffective processing in criminal psychopaths: brain event-related potentials reveal task-specific anomalies. <i>Journal of Personality Disorders</i> , 2007 , 21, 322-39 | 2.6 | 26 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 99 | Optimal electrocardiographic lead systems: practical scenarios in smart clothing and wearable health systems. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2008 , 12, 433-41 | | 23 |
| 98 | An optimization of ReliefF for classification in large datasets. <i>Data and Knowledge Engineering</i> , 2009 , 68, 1348-1356 | 1.5 | 22 |
| 97 | Technology-mediated therapy for chronic pain management: the challenges of adapting behavior change interventions for delivery with pervasive communication technology. <i>Telemedicine Journal and E-Health</i> , 2011 , 17, 211-6 | 5.9 | 22 |
| 96 | . <i>IEEE Transactions on Human-Machine Systems</i> , 2017 , 47, 814-821 | 4.1 | 21 |
| 95 | Qualitative evaluation of the SMART2 self-management system for people in chronic pain. <i>Disability and Rehabilitation: Assistive Technology</i> , 2015 , 10, 53-60 | 1.8 | 19 |
| 94 | Management of Uncertainty and Spatio-Temporal Aspects for Monitoring and Diagnosis in a Smart Home. <i>International Journal of Computational Intelligence Systems</i> , 2008 , 1, 361 | 3.4 | 19 |
| 93 | A smartphone based real-time daily activity monitoring system. <i>Cluster Computing</i> , 2014 , 17, 711-721 | 2.1 | 18 |
| 92 | An ontological framework for activity monitoring and reminder reasoning in an assisted environment. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2013 , 4, 157-168 | 3.7 | 15 |
| 91 | A Supervised Learning Approach to Predicting Coronary Heart Disease Complications in Type 2 Diabetes Mellitus Patients 2006 , | | 13 |
| 90 | Selection of optimal recording sites for limited lead body surface potential mapping: a sequential selection based approach. <i>BMC Medical Informatics and Decision Making</i> , 2006 , 6, 9 | 3.6 | 13 |
| 89 | Auditory brainstem response classification: a hybrid model using time and frequency features. <i>Artificial Intelligence in Medicine</i> , 2007 , 40, 1-14 | 7.4 | 12 |
| 88 | Realistic expectations with brain computer interfaces. <i>Journal of Assistive Technologies</i> , 2012 , 6, 233-244 | | 11 |
| 87 | Investigation into a Mixed Hybrid Using SSVEP and Eye Gaze for Optimising User Interaction within a Virtual Environment. <i>Lecture Notes in Computer Science</i> , 2013 , 530-539 | 0.9 | 11 |
| 86 | Contrasting levels of accuracy in command interaction sequences for a domestic brain-computer interface using SSVEP 2010 , | | 10 |
| 85 | Optimizing the 12-lead electrocardiogram: a data driven approach to locating alternative recording sites. <i>Journal of Electrocardiology</i> , 2007 , 40, 292-9 | 1.4 | 10 |
| 84 | . <i>IEEE Transactions on Human-Machine Systems</i> , 2018 , 48, 113-124 | 4.1 | 10 |
| 83 | Design of a smart insole for ambulatory assessment of gait 2015 , | | 9 |
| 82 | An orientation free adaptive step detection algorithm using a smart phone in physical activity monitoring. <i>Health and Technology</i> , 2012 , 2, 249-258 | 2.1 | 9 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| 81 | Feature selection and classification in supporting report-based self-management for people with chronic pain. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2011 , 15, 54-61 | | 9 |
| 80 | A user centred approach for developing Brain-Computer Interfaces 2010 , | | 9 |
| 79 | A theoretic algorithm for fall and motionless detection 2009 , | | 9 |
| 78 | Mining for diagnostic information in body surface potential maps: a comparison of feature selection techniques. <i>BioMedical Engineering OnLine</i> , 2005 , 4, 51 | 4.1 | 9 |
| 77 | Night optimised care technology for users needing assisted lifestyles. <i>Behaviour and Information Technology</i> , 2014 , 33, 1261-1277 | 2.4 | 8 |
| 76 | Investigating the use of brain-computer interaction to facilitate creativity 2012 , | | 7 |
| 75 | An electrocortical correlate of a history of alcohol abuse in criminal offenders. <i>Psychology, Crime and Law</i> , 2001 , 7, 105-117 | 1.4 | 7 |
| 74 | An Ontology-Based Context-aware Approach for Behaviour Analysis. <i>Atlantis Ambient and Pervasive Intelligence</i> , 2011 , 127-148 | | 7 |
| 73 | State of the art on night-time care of people with dementia 2009 , | | 7 |
| 72 | A Personalized Self-Management Rehabilitation System for Stroke Survivors: A Quantitative Gait Analysis Using a Smart Insole. <i>JMIR Rehabilitation and Assistive Technologies</i> , 2016 , 3, e11 | 3.2 | 7 |
| 71 | Knowledge transfer for technology based interventions: Collaboration, development and evaluation. <i>Technology and Disability</i> , 2012 , 24, 233-243 | 0.7 | 6 |
| 70 | A sleep pattern analysis and visualization system to support people with early dementia 2011 , | | 6 |
| 69 | Activity monitoring using an intelligent mobile phone 2010 , | | 6 |
| 68 | Evaluation of Outcome Prediction for a Clinical Diabetes Database. <i>Lecture Notes in Computer Science</i> , 2004 , 181-190 | 0.9 | 6 |
| 67 | Wearable technology-based metrics for predicting operator performance during cardiac catheterisation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019 , 14, 645-657 | 3.9 | 6 |
| 66 | Comparing CNN and Human Crafted Features for Human Activity Recognition 2019 , | | 6 |
| 65 | Accessing Tele-Services Using a Hybrid BCI Approach. <i>Lecture Notes in Computer Science</i> , 2015 , 110-123 | 0.9 | 5 |
| 64 | An Efficient Feature Selection Method for Activity Classification 2014 , | | 5 |

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| 63 | Design and Evaluation of a Smartphone Based Wearable Life-Logging and Social Interaction System 2014, | | 5 |
| 62 | 2015, | | 5 |
| 61 | Self-management of COPD 2014, | | 5 |
| 60 | Evaluation of connected health technology. <i>Technology and Health Care</i> , 2012 , 20, 151-67 | 1.1 | 5 |
| 59 | Mining, knowledge and decision support. <i>Technology and Health Care</i> , 2010 , 18, 429-41 | 1.1 | 5 |
| 58 | Multi-agent Interactions for Ambient Assisted Living 2011, | | 5 |
| 57 | Personalisation and configuration of assistive technologies. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 3304-7 | 0.9 | 5 |
| 56 | The Optimisation of Thresholding Techniques for the Identification of Choroidal Neovascular Membranes in Exudative Age-Related Macular Degeneration 2006, | | 5 |
| 55 | Speed of Rapid Serial Visual Presentation of Pictures, Numbers and Words Affects Event-Related Potential-Based Detection Accuracy. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 113-122 | 4.8 | 5 |
| 54 | Personalizing Activity Recognition With a Clustering Based Semi-Population Approach. <i>IEEE Access</i> , 2020 , 8, 207794-207804 | 3.5 | 5 |
| 53 | BCI and Eye Gaze: Collaboration at the Interface. <i>Lecture Notes in Computer Science</i> , 2015 , 199-210 | 0.9 | 4 |
| 52 | Science versus design; comparable, contrastive or conducive?. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 21, 195-201 | 4.1 | 4 |
| 51 | The Brain Computer Interface: Barriers to Becoming Pervasive. <i>Human-computer Interaction Series</i> , 2014 , 101-129 | 0.6 | 4 |
| 50 | Evaluation of a technology enabled garment for older walkers. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 2100-3 | 0.9 | 4 |
| 49 | Towards a Decision Support Personalised Self Management System for Chronic Conditions 2008, | | 4 |
| 48 | An SSVEP and Eye Tracking Hybrid BNCI: Potential Beyond Communication and Control. <i>Lecture Notes in Computer Science</i> , 2016 , 69-78 | 0.9 | 4 |
| 47 | Reliability of Location Detection in Intelligent Environments. <i>Advances in Intelligent and Soft Computing</i> , 2011 , 181-188 | | 4 |
| 46 | An Ontological Approach for Context-Aware Reminders in Assisted Living Behavior Simulation. <i>Lecture Notes in Computer Science</i> , 2011 , 677-684 | 0.9 | 4 |

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| 45 | A Smart Garment for Older Walkers. <i>Lecture Notes in Computer Science</i> , 2012 , 258-261 | 0.9 | 4 |
| 44 | Patient and carer survey of remote vital sign telemonitoring for self-management of long-term conditions. <i>BMJ Health and Care Informatics</i> , 2019 , 26, | 2.6 | 4 |
| 43 | A Public Domain Dataset for Human Activity Recognition in Free-Living Conditions 2019 , | | 4 |
| 42 | Can brain computer interfaces become practical assistive devices in the community?. <i>Studies in Health Technology and Informatics</i> , 2010 , 160, 314-8 | 0.5 | 4 |
| 41 | Home-Based Self-Management of Dementia: Closing the Loop. <i>Lecture Notes in Computer Science</i> , 2015 , 232-243 | 0.9 | 3 |
| 40 | . <i>IEEE Transactions on Human-Machine Systems</i> , 2020 , 50, 277-286 | 4.1 | 3 |
| 39 | Knowledge discovery from activity monitoring to support independent living of people with early dementia 2012 , | | 3 |
| 38 | A Platform for Self-Management Supported by Assistive, Rehabilitation and Telecare Technologies 2011 , | | 3 |
| 37 | Brain Computer Interfaces for inclusion 2010 , | | 3 |
| 36 | Identification of Choroidal Neovascularisation on Fluorescein Angiograms Using Gradient Vector Flow Active Contours 2008 , | | 3 |
| 35 | A missing data estimation analysis in type II diabetes databases | | 3 |
| 34 | Feature selection via supervised model construction | | 3 |
| 33 | Safety Considerations in the Development of Intelligent Environments. <i>Advances in Intelligent and Soft Computing</i> , 2011 , 197-204 | | 3 |
| 32 | A Subarea Mapping Approach for Indoor Localization. <i>Lecture Notes in Computer Science</i> , 2011 , 80-87 | 0.9 | 3 |
| 31 | Towards Standardized User and Application Interfaces for the Brain Computer Interface. <i>Lecture Notes in Computer Science</i> , 2011 , 573-582 | 0.9 | 3 |
| 30 | KeepWell: A Generic Platform for the Self-Management of Chronic Conditions. <i>IFMBE Proceedings</i> , 2016 , 897-902 | 0.2 | 3 |
| 29 | COPD lifestyle support through self-management (CALs) 2014 , | | 2 |
| 28 | Superhighway patrolman. <i>Futures</i> , 2013 , 50, 101-108 | 3.6 | 2 |

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| 27 | Rich context information for just-in-time adaptive intervention promoting physical activity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, 2017, 849-852</i> | 0.9 | 2 |
| 26 | RFID network deployment approaches for indoor localisation 2015, | | 2 |
| 25 | Quantifying brain activity for task engagement 2014, | | 2 |
| 24 | Multi-agent System Feedback and Support for Ambient Assisted Living 2012, | | 2 |
| 23 | Topographical brain electrical activity mapping on an IBM-compatible personal computer. <i>Journal of Biomedical Engineering, 1989, 11, 137-40</i> | | 2 |
| 22 | Scoping the Potential for Anytime-Anywhere Support Through Virtual Mentors. <i>Innovations in Teaching and Learning in Information and Computer Sciences, 2010, 9, 1-12</i> | | 2 |
| 21 | Home Based Self-management of Chronic Diseases. <i>Lecture Notes in Computer Science, 2009, 229-232</i> | 0.9 | 2 |
| 20 | NOCTURNAL Ambient Assisted Living. <i>Lecture Notes in Computer Science, 2011, 350-354</i> | 0.9 | 2 |
| 19 | Integration of assistive technology to support self management of chronic disease 2009, | | 2 |
| 18 | Professional development of health informatics in Northern Ireland. <i>Studies in Health Technology and Informatics, 2011, 169, 218-22</i> | 0.5 | 2 |
| 17 | Home Based Mobile Solution for Video Ambulatory EEG Monitoring 2014, | | 1 |
| 16 | A method for assessing the usability of an on screen display for a brain-computer interface. <i>International Journal of Computers in Healthcare, 2014, 2, 43</i> | | 1 |
| 15 | VitalSimML - A well-formed data structure to Capture Patient Monitoring Scenarios to facilitate the training of nurses via computer-based simulation 2015, | | 1 |
| 14 | Towards a generic platform for the self-management of chronic conditions 2014, | | 1 |
| 13 | The NOCTURNAL Ambient Assisted Living System 2011, | | 1 |
| 12 | Pervasive technology to facilitate wellness 2010, | | 1 |
| 11 | A pattern analysis and visualisation system for sleep monitoring in ambient assisted living environment. <i>International Journal of Computers in Healthcare, 2012, 1, 320</i> | | 1 |
| 10 | Managing Communication for People with Amyotrophic Lateral Sclerosis: The Role of the Brain-Computer Interface. <i>Communications in Medical and Care Compunetics, 2014, 215-235</i> | | 1 |

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|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| 9 | Design and Evaluation of a Smartphone Based Wearable Life-Logging and Social Interaction System. <i>Lecture Notes in Computer Science</i> , 2014 , 179-186 | 0.9 | 0 |
| 8 | PC software library for the production of auditory stimuli in cognitive event-related potential experiments. <i>Computer Methods and Programs in Biomedicine</i> , 1994 , 45, 283-9 | 6.9 | |
| 7 | Irish Paediatric Association. <i>Irish Journal of Medical Science</i> , 1989 , 158, 27-32 | 1.9 | |
| 6 | Irish gerontological society. <i>Irish Journal of Medical Science</i> , 1989 , 158, 197-200 | 1.9 | |
| 5 | Automated classification of peripheral movement disorder. <i>Journal of Microcomputer Applications</i> , 1990 , 13, 281-290 | | |
| 4 | Data Reduction Methods for Life-Logged Datasets. <i>Computer Communications and Networks</i> , 2020 , 305-319 | | |
| 3 | Mind, the Gap. <i>Communications in Computer and Information Science</i> , 2016 , 102-112 | 0.3 | |
| 2 | A comparison of supervised classification methods for auditory brainstem response determination. <i>Studies in Health Technology and Informatics</i> , 2007 , 129, 1289-93 | 0.5 | |
| 1 | The Use of Artificial Neural Networks for Objective Determination of Hearing Threshold Using the Auditory Brainstem Response 195-216 | | |